INTERNATIONAL SEARCH REPORT

International application No. PCT/KR 2003/002419

	COURTON OF CLID IFOT MATTER		
	ASSIFICATION OF SUBJECT MATTER		
IPC': F	04B 35/04, 49/06; F25B 1/02		
According	g to International Patent Classification (IPC) or to both nation	onal classification and IPC	
	LDS SEARCHED		
_	documentation searched (classification system followed by	y classification symbols)	
	04B, F25B		
Documen	tation searched other than minimum documentation to the c	extent that such documents are included i	n the fields searched
Electronic	c data base consulted during the international search (name	of data base and, where practicable, seare	ch terms used)
WPI, E	EPODOC, PAJ		
C. DO	CUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate,	of the relevant passages	Relevant to claim No.
Α	WO 2001/054253 A1 (LG ELECTRON (26.07.2001) claims 1-10; fig. 4-9.	1,7,9	
Α	US 2003/0177773 A1 (KIM) 25 Septer claims 1,4,12; fig. 4-7.	7,9	
Α	US 6527519 B2 (HWANG et al) 4 Mar claims 1,12; fig. 2-5.	7,9	
Α	US 2003/0026702 A1 (YOO et al) 6 Fe fig. 2-7; claims 1,8,13.	7,9	
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i i i ui	ther documents are listed in the continuation of Roy C	See natent family annov	
* Speci "A" docur consid "E" earlie filing "L" docur cited specie "O" docur mean. "P" docur	ment defining the general state of the art which is not dered to be of particular relevance r application or patent but published on or after the international date nent which may throw doubts on priority claim(s) or which is to establish the publication date of another citation or other al reason (as specified) ment referring to an oral disclosure, use, exhibition or other s nent published prior to the international filing date but later than	See patent family annex. "T" later document published after the interna date and not in conflict with the application the principle or theory underlying the involvement of particular relevance; the claim considered novel or cannot be considered when the document is taken alone and the considered to involve an inventive step we combined with one or more other such debeing obvious to a person skilled in the angle. "" document member of the same patent fan	on but cited to understand ention med invention cannot be to involve an inventive step med invention cannot be then the document is becoments, such combination
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* Speci "A" docur consid "E" earlie filing "L" docur mean "P" docur the pr Date of t	al categories of cited documents: ment defining the general state of the art which is not dered to be of particular relevance r application or patent but published on or after the international date nent which may throw doubts on priority claim(s) or which is to establish the publication date of another citation or other al reason (as specified) ment referring to an oral disclosure, use, exhibition or other s nent published prior to the international filing date but later than riority date claimed he actual completion of the international search 9 July 2004 (09.07.2004) d mailing adress of the ISA/AT an Patent Office ner Straße 87, A-1200 Vienna	"T" later document published after the international relaterand not in conflict with the application the principle or theory underlying the involvement of particular relevance; the claim considered novel or cannot be considered when the document is taken alone "Y" document of particular relevance; the claim considered to involve an inventive step with combined with one or more other such described being obvious to a person skilled in the a special particular relevance. The claim considered to involve an inventive step with combined with one or more other such described being obvious to a person skilled in the application. The combined with one of the same patent fair that the combined of the international search and the combined of the combined of the international search and the combined of the international search and the combined of the international search and the combined of the combined	on but cited to understand ention med invention cannot be to involve an inventive step med invention cannot be then the document is becaments, such combination rt mily h report .08.2004)

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Reference signs in parentheses should be inserted in the claims to increase their intelligibility (Rule 6.2b PCT).					
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Form PCT/ISA/210 (extra sheet) (July 1998)	╝				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR 03/02419-0

Patent document cited in search report			Publication date	Patent family member(s)		Publication date	
US	A	20030026 702				none	
US	A	20030177 773			_	none	
US	В	6527519	2003-03-04	KR	A	2002041983	.2002-06-05
				KR	Α	2002041982	2002-06-05
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